

**WHAT IS CLAIMED IS:**

1. Method for addressing components of a first network in a databus system in a transport vehicle, in which each component is assigned a first address for mutual communication within the network and the first addresses are stored in a central register, wherein at least one particular component of the first network communicates with another network, said one component, when dialling into the second network, is assigned a second address by the second network, and wherein, within the first network, addressing takes place on the basis of function-specific address components, identical function blocks of the components being addressed via identical function-specific address components.

2. Method for addressing components of a first network, in a data bus system in a transport vehicle, in which each component is assigned a first address for mutual communication within the network and the first addresses are stored in a central register, wherein external IP addresses are issued to components which are authorized on the basis of an entry in a configuration list in a centralized component, and wherein proof about the authorization is made via a main function block transmitted with a request.

3. Method according to Claim 2, wherein the main function block is also transmitted from an interrogating component to the

centralized component during the interrogation, and the IP address is formed from the main function block and other address components of the interrogating component.

4. Method according to Claim 1, wherein a component of the first network registers a communication with the second network with the component which is visible from outside the first network, whereupon the component of the registering component with the internal address from the first network enables communication with the external IP address and thereupon sets up communication with the second network.

5. Method according to Claim 1, wherein the components evaluate the first addresses stored in the central register in order to check the configuration of the entire system.

6. Method according to Claim 1, wherein, during system power-up, the addresses/address components relating to a component are copied by the central register via the data bus and are compared with the address information stored in a respective decentralized memory in component.

7. Method according to Claim 1, wherein in the case of a new configuration of the databus system, the addresses copied by

the centralized component via the data bus are stored in a memory of the relevant component.

8. Method according to Claim 1, wherein the data are transmitted via an optical data bus.

9. The method according to Claim 8, wherein the optical databus is one of a so-called D2B or MOST databus.

10. Method according to Claim 1, wherein, before an actual data transmission via the data bus during system power-up or after reception of a status signal, the stored addresses or address components are matched in the registers of the components and/or function groups in accordance with the stored addresses of the centralized component.

11. Method according to Claim 1, wherein IP address of the requesting component are interrogatable from the central list by using a special instruction in the system.

12. Method according to Claim 2, wherein a component of the first network registers a communication with the second network with the component which is visible from outside the first network, whereupon the component of the registering component with the internal address from the first network enables

communication with the external IP address and thereupon sets up communication with the second network.

13. Method according to Claim 2, wherein the components evaluate the first addresses stored in the central register in order to check the configuration of the entire system.

14. Method according to Claim 2, wherein, during system power-up, the addresses/address components relating to a component are copied by the central register via the data bus and are compared with the address information stored in a respective decentralized memory in component.

15. Method according to Claim 2, wherein in the case of a new configuration of the databus system, the addresses copied by the centralized component via the data bus are stored in a memory of the relevant component.

16. Method according to Claim 2, wherein the data are transmitted via an optical data bus.

17. The method according to Claim 16, wherein the optical databus is one of a so-called D2B or MOST databus.

18. Method according to Claim 2, wherein, before an actual data transmission via the data bus during system power-up or after reception of a status signal, the stored addresses or address components are matched in the registers of the components and/or function groups in accordance with the stored addresses of the centralized component.

19. Method according to Claim 2, wherein IP address of the requesting component are interrogatable from the central list by using a special instruction in the system.